



1

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PIPLANI, SUNILA
MERRILL, BARBARA MCEOWEN
SCHATZ, PETER JOSEPH

<120> COMPOUNDS HAVING AFFINITY FOR THE GRANULOCYTE-COLONY STIMULATING FACTOR RECEPTOR (G-CSFR) AND ASSOCIATED USES

<130> 0300-0014

<140> 09/620,091
<141> 2000-07-20

<160> 491

<170> PatentIn Ver. 2.1

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 83

Gly Ser Ser Cys Asp Pro Trp Leu Phe Tyr Asp Leu Cys Leu Leu Asp
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<210> 84

<211> 16

<212> PRT

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<223> Description of Artificial Sequence: Synthetic peptide

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Gly Gly Gly Cys Asp Pro Trp Val Trp Tyr Asp Leu Cys Trp Cys Asp
1 5 10 15

<210> 85

<211> 16

<212> PRT

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 85

Tyr Thr Ser Cys Asp Pro Trp Ile Phe Phe Asp Arg Cys Met Ser Val
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<210> 86

<211> 16

<212> PRT

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<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 86

Asp Pro Tyr Cys Asp Pro Trp Met Phe Phe Asp Gln Cys Ala Tyr Leu
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<210> 87

<211> 14

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 87

Arg Glu Phe Cys Asp Pro Trp Leu Trp Tyr Asp Arg Cys Leu
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<210> 88

<211> 16

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<223> Description of Artificial Sequence: Synthetic peptide

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Asn Thr Gly Cys Asp Val Trp Val Trp Tyr Asp Gln Cys Phe Ala Met
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<210> 89

<211> 16

<212> PRT

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<223> Description of Artificial Sequence: Synthetic peptide

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Leu Val Phe Cys Asp Pro Trp Ile Tyr Tyr Asp Leu Cys Met Asp Thr
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<210> 90

<211> 12

<212> PRT

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 90

Gly Cys Ser Phe Val Gln Leu Asn Ser Ile Cys Gly
1 5 10

<210> 91

<211> 12

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<223> Description of Artificial Sequence: Synthetic peptide

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Gly Cys Pro Ala Trp Tyr Leu Glu Tyr Met Cys Gly
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<210> 92

<211> 12

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<223> Description of Artificial Sequence: Synthetic peptide

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Gly Cys Pro Asp Trp Tyr Leu Glu Tyr Met Cys Gly
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<210> 93

<211> 12

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<223> Description of Artificial Sequence: Synthetic peptide

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Gly Cys Lys Tyr Trp Gln Trp Phe Asp Lys Cys Gly
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<210> 94

<211> 12

<212> PRT

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 94

Gly Cys Asp His Trp Met Trp Tyr Asp Lys Cys Gly
1 5 10

<210> 95

<211> 9

<212> PRT

<213> Artificial Sequence

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<210> 96
<211> 9
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<210> 97
<211> 9
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Arg Thr Glu Ser Gly Trp Val Trp Thr
1 5

<210> 98
<211> 9
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<400> 98
Arg Ala Asn Ser Gly Trp Val Trp Val
1 5

<210> 99
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Tyr Asp Asn Ser Gly Trp Val Trp His
1 5

<210> 100
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1 5 10

<210> 101
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<400> 101
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1 5 10 15

<210> 102
<211> 11
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<400> 102
Cys Glu Gln Ser Asn Ser Gly Trp Val Trp Val
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<210> 103
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<400> 103

Glu Gln Ser Asn Ser Gly Trp Val Trp Val Gly Gly Gly Cys Lys
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Lys Lys

<210> 104

<211> 15

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<400> 104

Glu Gln Ser Asn Ser Gly Trp Val Trp Val Gly Lys Lys Lys Cys
1 5 10 15

<210> 105

<211> 14

<212> PRT

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<400> 105

Glu Gln Ser Asn Ser Gly Trp Val Trp Val Gly Lys Lys Lys
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<210> 106

<211> 13

<212> PRT

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Lys Lys Lys Glu Gln Ser Asn Ser Gly Trp Val Trp Val
1 5 10

<210> 107

<211> 18

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<400> 107
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Lys Lys

<210> 108
<211> 16
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<220>
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<400> 108
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<210> 109
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<212> PRT
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<220>
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Cys Lys Lys Lys
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<210> 110
<211> 10
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<400> 110
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<210> 111
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Glu Gln Ser Asn Ser Gly Trp Val Trp Val
1 5 10

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Ser Arg Thr Glu Ser Gly Trp Val Trp Thr
1 5 10

<210> 113
<211> 10
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<400> 113
Gln Arg Ala Asn Ser Gly Trp Val Trp Val
1 5 10

<210> 114
<211> 10
<212> PRT
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<220>
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<400> 114
Asp Tyr Asp Asn Ser Gly Trp Val Trp His
1 5 10

<210> 115
<211> 15

<212> PRT
<213> Artificial Sequence

<220>
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<400> 115
Glu Gln Ser Asn Ser Gly Trp Val Trp Val Gly Lys Lys Lys Lys
1 5 10 15

<210> 116
<211> 18
<212> PRT
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<220>
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<400> 116
Glu Gln Ser Asn Ser Gly Trp Val Trp Val Gly Gly Gly Ser Lys
1 5 10 15
Lys Lys

<210> 117
<211> 15
<212> PRT
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<400> 117
Glu Gln Ser Asn Ser Gly Trp Val Trp Val Gly Gly Gly Ser
1 5 10 15

<210> 118
<211> 30
<212> PRT
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<220>
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<400> 118
Glu Gln Ser Asn Ser Gly Trp Val Trp Val Gly Gly Gly Ser Glu
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Gln Ser Asn Ser Gly Trp Val Trp Val Gly Gly Gly Ser
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<210> 119

<211> 20

<212> PRT

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 119

Arg Tyr Gln Ser Phe Glu Leu Ser Asp Ser Gly Trp Val Trp Val Pro
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Val Ala Arg His

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<210> 120

<211> 6

<212> PRT

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<400> 120

Glu Arg Asp Trp Phe Cys
1 5

<210> 121

<211> 6

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<400> 121

Glu Arg Asp Trp Gly Cys
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<210> 122

<211> 6

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<210> 123
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Glu Arg Ser Tyr Phe Cys
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<210> 124
<211> 6
<212> PRT
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1 5

<210> 125
<211> 6
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<210> 126
<211> 6
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1 5

<210> 127
<211> 6
<212> PRT
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1 5

<210> 128
<211> 6
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<400> 128
Glu Arg Tyr Phe Met Cys
1 5

<210> 129
<211> 6
<212> PRT
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<220>
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<400> 129
Glu Arg Leu Phe Leu Cys
1 5

<210> 130
<211> 6
<212> PRT
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<220>
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<400> 130
Glu Arg Ala Leu Met Cys
1 5

<210> 131
<211> 6
<212> PRT
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<220>
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<400> 131
Glu Arg Asp Val Met Cys
1 5

<210> 132
<211> 6
<212> PRT
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<220>
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<400> 132
Glu Arg Lys Trp Phe Cys
1 5

<210> 133
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<220>
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<400> 133
Glu Thr Trp Gly Glu Arg Asp Trp Phe Cys
1 5 10

<210> 134
<211> 10
<212> PRT
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<220>
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<400> 134
Glu Thr Trp Gly Glu Arg Asp Trp Gly Cys
1 5 10

<210> 135
<211> 10
<212> PRT
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<220>
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<400> 135
Ser Thr Ala Glu Arg Leu Trp Phe Cys Gly
1 5 10

<210> 136
<211> 10
<212> PRT
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<220>
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<400> 136
Tyr Glu Thr Ala Glu Arg Ser Tyr Phe Cys
1 5 10

<210> 137
<211> 10
<212> PRT
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<220>
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<400> 137
Ala Asp Asn Ala Glu Arg Gly Trp Phe Cys
1 5 10

<210> 138
<211> 10
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<220>
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<400> 138
Gln Ser Asn Ser Glu Arg Glu Trp Phe Cys
1 5 10

<210> 139
<211> 10
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<220>
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<400> 139
Ser Thr Ser Glu Arg Ala Trp Phe Cys Gly
1 5 10

<210> 140
<211> 10
<212> PRT
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<220>
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<400> 140
Ala Ser Trp Ser Glu Arg Gly Trp Phe Cys
1 5 10

<210> 141
<211> 10
<212> PRT
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<220>
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<400> 141
Glu Leu Ser Ser Glu Arg Glu Trp Phe Cys
1 5 10

<210> 142
<211> 10
<212> PRT
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<220>
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<400> 142
Asp Met Gln Gly Glu Arg Gly Trp Phe Cys
1 5 10

<210> 143
<211> 10
<212> PRT
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<220>
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<400> 143
Ser Ser Ser Glu Arg Ala Trp Phe Cys Gly
1 5 10

<210> 144
<211> 10
<212> PRT
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<220>
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<400> 144
Gly Asn Met Arg Glu Arg Leu Tyr Phe Cys
1 5 10

<210> 145
<211> 10
<212> PRT
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<220>
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<400> 145
Gln Pro Asn Arg Glu Arg Tyr Phe Met Cys
1 5 10

<210> 146
<211> 10
<212> PRT
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<220>
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<400> 146
Ser Val Thr Arg Glu Arg Leu Phe Leu Cys
1 5 10

<210> 147
<211> 15
<212> PRT
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<220>
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<400> 147
Ile Pro Leu Ser Glu Arg Ala Leu Met Cys Ser Ser Trp Asn Cys
1 5 10 15

<210> 148
<211> 15
<212> PRT
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<220>
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<400> 148
Trp Ala Arg Ser Glu Arg Asp Val Met Cys Leu Ser Tyr Val Cys
1 5 10 15

<210> 149
<211> 11
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<220>
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<400> 149
Gln Ser Asn Ser Glu Arg Glu Trp Phe Cys Gly
1 5 10

<210> 150
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
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<400> 150
Gln Ser Asn Ser Glu Arg Glu Trp Phe Cys Gly Gly Gly Ser
1 5 10 15

<210> 151
<211> 19
<212> PRT
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<220>
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<400> 151
Asn Leu Glu Glu Ala Leu Ala Gln Glu Arg Leu Trp Phe Cys Arg Ser
1 5 10 15
Gly Asn Cys

<210> 152
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
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<400> 152
Asn Leu Glu Ser Tyr Glu Met Glu Glu Arg Lys Trp Phe Cys Lys Met
1 5 10 15
Phe Ser Cys

<210> 153
<211> 9
<212> PRT
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<220>
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<400> 153
Asp Met Val Tyr Ala Tyr Pro Pro Trp
1 5

<210> 154
<211> 9
<212> PRT
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<220>

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<400> 154

Glu Met Val Tyr Thr Val Pro Tyr Trp
1 5

<210> 155

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

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<400> 155

Asp Met Val Tyr Ala Tyr Pro Pro Trp Ser
1 5 10

<210> 156

<211> 10

<212> PRT

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<400> 156

Asp Glu Met Val Tyr Thr Val Pro Tyr Trp
1 5 10

<210> 157

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

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<400> 157

Cys Glu Ser Arg Leu Val Glu Cys Ser Arg Met Cys
1 5 10

<210> 158

<211> 12

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 158

Cys Glu Thr Tyr Met Thr Tyr Val Tyr Trp Leu Cys
1 5 10

<210> 159

<211> 12

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<213> Artificial Sequence

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<400> 159

Cys Gly Glu Arg Leu Ala Glu Cys Ala Arg Leu Cys
1 5 10

<210> 160

<211> 12

<212> PRT

<213> Artificial Sequence

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<400> 160

Cys Glu Ser Arg Leu Arg Glu Cys Ser Met Leu Cys
1 5 10

<210> 161

<211> 12

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<213> Artificial Sequence

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<400> 161

Cys Glu Ala Arg Leu Ser Glu Cys Ser Arg Ile Cys
1 5 10

<210> 162

<211> 12

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<213> Artificial Sequence

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<400> 162
Cys Pro Ala Arg Leu Leu Glu Cys Ser Arg Met Cys
1 5 10

<210> 163
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<400> 163
Cys Glu Ser Val Gly Val Gly Asp Trp Trp Ser Cys
1 5 10

<210> 164
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<400> 164
Cys Glu Asp Arg Leu Val Glu Gly Pro Trp Val Cys
1 5 10

<210> 165
<211> 12
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<400> 165
Cys Asn Asp Gln Phe Arg Thr Cys Val Asp Val Cys
1 5 10

<210> 166
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peptide

<400> 166
Cys Arg Gly Glu Trp Trp Glu Leu Tyr His Pro Cys
1 5 10

<210> 167
<211> 12
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 167
Cys Glu Asp Thr Arg Thr Gly Trp Ala Trp Ser Cys
1 5 10

<210> 168
<211> 12
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peptide

<400> 168
Cys Thr Trp Leu Ser Ser Gly Glu Leu Val Trp Cys
1 5 10

<210> 169
<211> 12
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peptide

<400> 169
Cys Trp Pro Pro Val Cys Glu Val Ser Gly Ile Cys
1 5 10

<210> 170
<211> 12
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<400> 170
Cys Ser Leu Ser Pro Ile Gln Leu Gln His Leu Cys
1 5 10

<210> 171
<211> 12
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<400> 171
Cys Leu Ala Arg Leu Glu Glu Cys Ser Arg Phe Cys
1 5 10

<210> 172
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<400> 172
Cys His Asn Ser Ser Pro Met Val Gly Val Thr Cys
1 5 10

<210> 173
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<400> 173
Cys His Val Ser Pro Val Gln Ile Lys Ala Leu Cys
1 5 10

<210> 174
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peptide

<400> 174
Cys Ala Ala Pro Ala Thr Ser Trp Phe Gln Tyr Cys
1 5 10

<210> 175
<211> 12
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peptide

<400> 175
Cys Ala Ser Lys Leu His Glu Cys Ser Leu Arg Cys
1 5 10

<210> 176
<211> 12
<212> PRT
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peptide

<400> 176
Cys Glu Pro Met Asp Ser Asn Gly Ile Val Gln Cys
1 5 10

<210> 177
<211> 12
<212> PRT
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peptide

<400> 177
Cys Gln Tyr Ala Ser Ala Ala Asp Glu Gln Arg Cys
1 5 10

<210> 178
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peptide

<400> 178
Cys Glu Tyr Trp Asp Glu Pro Ser Leu Ser Trp Cys
1 5 10

<210> 179
<211> 12
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peptide

<400> 179
Cys Glu Arg Glu Cys Phe Gln Met Leu Glu Arg Cys
1 5 10

<210> 180
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peptide

<400> 180
Cys Gly Met Ser Thr Asp Glu Leu Asp Glu Ile Cys
1 5 10

<210> 181
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peptide

<400> 181
Cys Tyr Val Ser Pro Ser Thr Gly Leu Tyr Ser Cys
1 5 10

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<400> 182
Cys Glu Ala Arg Leu Val Glu Cys Ser Arg Leu Cys
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<210> 183
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<400> 183
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1 5 10

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<400> 184
Cys Glu Leu Lys Leu Gln Glu Cys Ala Arg Arg Cys
1 5 10

<210> 185
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Cys Glu Leu Lys Leu Gln Glu Ala Ala Arg Arg Cys
1 5 10

<210> 186
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<223> Description of Artificial Sequence: Synthetic peptide

<400> 186

Cys Leu Glu Arg Leu Glu Glu Cys Ser Arg Phe Cys
1 5 10

<210> 187

<211> 14

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<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 187

Gly Gly Cys Glu Ser Arg Leu Val Glu Cys Ser Arg Met Cys
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<210> 188

<211> 14

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 188

Gly Gly Cys Glu Thr Tyr Met Thr Tyr Val Tyr Trp Leu Cys
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<210> 189

<211> 15

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 189

Glu Trp Leu Cys Glu Ser Val Gly Val Gly Asp Trp Trp Ser Cys
1 5 10 15

<210> 190

<211> 18

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<213> Artificial Sequence

<220>
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<400> 190
Tyr His Pro Cys Glu Asp Arg Leu Val Glu Gly Pro Trp Val Cys Cys
1 5 10 15
Arg Ser

<210> 191
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<212> PRT
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<400> 191
Trp Leu Leu Cys Asn Asp Gln Phe Arg Thr Cys Val Asp Val Cys Asp
1 5 10 15

Asn Val

<210> 192
<211> 18
<212> PRT
<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 192
Ile Ala Glu Cys Arg Gly Glu Trp Trp Glu Leu Tyr His Pro Cys Leu
1 5 10 15

Ala Ala

<210> 193
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
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<400> 193
Thr Trp Tyr Cys Glu Asp Thr Arg Thr Gly Trp Ala Trp Ser Cys Leu
1 5 10 15

Glu Leu

<210> 194
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 194
Gln Leu Asp Cys Thr Trp Leu Ser Ser Gly Glu Leu Val Trp Cys Ser
1 5 10 15

Asp Trp

<210> 195
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 195
Gln Phe Asp Cys Thr Trp Leu Ser Ser Gly Glu Leu Val Trp Cys Ser
1 5 10 15

Asp Trp

<210> 196
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 196
Cys Trp Pro Pro Val Cys Glu Val Ser Gly Ile Cys Ser
1 5 10

<210> 197
<211> 14
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 197

Cys Gly Cys Ser Leu Ser Pro Ile Gln Leu Gln His Leu Cys
1 5 10

<210> 198

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 198

Cys Gly Cys His Val Ser Pro Val Gln Ile Lys Ala Leu Cys
1 5 10

<210> 199

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 199

Gly Cys His Val Ser Pro Val Gln Ile Lys Ala Leu Cys
1 5 10

<210> 200

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 200

Gly Thr Ser Cys Ala Ala Pro Ala Thr Ser Trp Phe Gln Tyr Cys Val
1 5 10 15

Leu Pro

<210> 201

<211> 18

<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 201
Arg Met Asp Cys Ala Ser Lys Leu His Glu Cys Ser Leu Arg Cys Ala
1 5 10 15

Tyr Ala

<210> 202
<211> 18
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 202
Gly Val Val Cys Glu Pro Met Asp Ser Asn Gly Ile Val Gln Cys Ser
1 5 10 15

Met Arg

<210> 203
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 203
Ile Asp Val Cys Gln Tyr Ala Ser Ala Ala Asp Glu Gln Arg Cys Leu
1 5 10 15

Arg Ile

<210> 204
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 204
Asn Val Leu Cys Glu Tyr Trp Asp Glu Pro Ser Leu Ser Trp Cys Leu
1 5 10 15

Ser Ser

<210> 205
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 205
Cys Gln Cys Glu Arg Glu Cys Phe Gln Met Leu Glu Arg Cys
1 5 10

<210> 206
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 206
Phe Cys Ser Cys Gly Met Ser Thr Asp Glu Leu Asp Glu Ile Cys Ala
1 5 10 15

Ile Trp

<210> 207
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 207
Glu Glu Val Cys Tyr Val Ser Pro Ser Thr Gly Leu Tyr Ser Cys Tyr
1 5 10 15

Asp Gln

<210> 208
<211> 17

<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 208
Leu Leu Asp Ile Cys Glu Leu Lys Leu Gln Glu Cys Ala Arg Arg Cys
1 5 10 15

Asn

<210> 209
<211> 20
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 209
Gly Gly Gly Leu Leu Asp Ile Cys Glu Leu Lys Leu Gln Glu Cys Ala
1 5 10 15

Arg Arg Cys Asn
20

<210> 210
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 210
Gly Arg Thr Gly Gly Leu Leu Asp Ile Cys Glu Leu Lys Leu Gln
1 5 10 15

Glu Cys Ala Arg Arg Cys Asn
20

<210> 211
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 211
Leu Gly Ile Glu Gly Arg Thr Gly Gly Leu Leu Asp Ile Cys Glu
1 5 10 15

Leu Lys Leu Gln Glu Cys Ala Arg Arg Cys Asn
20 25

<210> 212
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 212
Leu Leu Asp Ile Cys Glu Leu Lys Leu Gln Glu Ala Ala Arg Arg Cys
1 5 10 15

Asn

<210> 213
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
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peptide

<400> 213
Lys Leu Leu Asp Ile Cys Glu Leu Lys Leu Gln Glu Ala Ala Arg Arg
1 5 10 15

Cys Asn

<210> 214
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 214
Glu Glu Lys Leu Arg Glu Cys Ala Arg
1 5

<210> 215
<211> 9

<212> PRT
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<220>
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<400> 215
Glu Ala Arg Leu Ala Glu Cys Ala Arg
1 5

<210> 216
<211> 9
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 216
Cys Met Lys Leu Met Glu Cys Ala Arg
1 5

<210> 217
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 217
Glu Leu Arg Leu Arg Glu Cys Ala His
1 5

<210> 218
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 218
Glu Ala Lys Leu His Glu Cys Ala Arg
1 5

<210> 219
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 219
Glu Leu Lys Leu Ala Glu Cys Ala Arg
1 5

<210> 220
<211> 9
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 220
Glu Ala Arg Leu Glu Glu Cys Ala Arg
1 5

<210> 221
<211> 9
<212> PRT
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peptide

<400> 221
Glu Ala Lys Leu Arg Glu Cys Ala Arg
1 5

<210> 222
<211> 9
<212> PRT
<213> Artificial Sequence

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peptide

<400> 222
Glu Leu Arg Leu Ala Glu Cys Ala Arg
1 5

<210> 223
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peptide

<400> 223
Glu Ser Arg Leu Ala Glu Cys Ala Arg
1 5

<210> 224
<211> 9
<212> PRT
<213> Artificial Sequence

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peptide

<400> 224
Glu Ala Lys Leu Val Glu Cys Ala Arg
1 5

<210> 225
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 225
Glu Ser Arg Leu Arg Glu Cys Ala Arg
1 5

<210> 226
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
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peptide

<400> 226
Glu Ala Lys Leu Ala Glu Cys Ala Arg
1 5

<210> 227
<211> 9
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<220>
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<400> 227
Gln Trp Arg Leu Glu Glu Cys Ala Arg
1 5

<210> 228
<211> 9
<212> PRT
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<400> 228
Gln Leu Arg Leu Glu Glu Cys Ala Arg
1 5

<210> 229
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
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<400> 229
Glu Leu Arg Leu Glu Glu Cys Ala Arg
1 5

<210> 230
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<400> 230
Glu Ala Lys Leu Leu Glu Cys Ala Arg
1 5

<210> 231
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<212> PRT
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<220>
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<400> 231
Glu Ala Arg Ala Gly Val Cys Ala Gly
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<210> 232
<211> 9
<212> PRT
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<220>
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<400> 232
Glu Ala Lys Ala Gly Val Cys Ala Gly
1 5

<210> 233
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
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<400> 233
Val Ala Arg Leu Glu Glu Cys Ala Arg
1 5

<210> 234
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
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<400> 234
Glu Leu Lys Leu Asp Glu Cys Ala Arg
1 5

<210> 235
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
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peptide

<400> 235
Glu Trp Arg Leu Gln Glu Cys Ala Arg
1 5

<210> 236
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
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peptide

<400> 236
Glu Ala Lys Leu Ser Glu Cys Ala Arg
1 5

<210> 237
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
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peptide

<400> 237
Glu Ala Arg Leu Ser Glu Cys Ala Arg
1 5

<210> 238
<211> 9
<212> PRT
<213> Artificial Sequence

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peptide

<400> 238
Glu Leu Lys Leu Leu Glu Cys Ala Arg
1 5

<210> 239
<211> 9
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<400> 239
Glu Leu Arg Leu Gln Glu Cys Gly Arg
1 5

<210> 240
<211> 9
<212> PRT
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<400> 240
Glu Gln Lys Leu Ala Glu Cys Ala Arg
1 5

<210> 241
<211> 9
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<400> 241
Glu Leu Arg Leu Gln Glu Cys Ala Arg
1 5

<210> 242
<211> 9
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<400> 242
Glu Leu Lys Leu Glu Glu Cys Ala Arg
1 5

<210> 243
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<400> 243

Glu Ser Arg Leu Glu Glu Cys Ala Arg
1 5

<210> 244

<211> 9

<212> PRT

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<220>

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<400> 244

Glu Ala Thr Val Gln Glu Cys Ala Arg
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<210> 245

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 245

Glu Leu Lys Leu Gln Glu Cys Ala Arg
1 5

<210> 246

<211> 9

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 246

Tyr Ser Arg Leu Glu Glu Cys Gly Arg
1 5

<210> 247

<211> 9

<212> PRT

<213> Artificial Sequence

<220>
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<400> 247
Glu Leu Arg Leu Arg Glu Cys Ala Leu
1 5

<210> 248
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
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<400> 248
Glu Ala Arg Leu Leu Glu Cys Ala Arg
1 5

<210> 249
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
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<400> 249
Glu Ser Arg Leu Leu Glu Cys Ala Arg
1 5

<210> 250
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
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<400> 250
Val Leu Lys Leu Glu Glu Cys Ala Arg
1 5

<210> 251
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 251
Glu Ser Lys Leu Ala Glu Cys Ala Arg
1 5

<210> 252
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
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<400> 252
Glu Ser Lys Leu Arg Glu Cys Ala Arg
1 5

<210> 253
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 253
Glu Tyr Lys Leu Gly Glu Cys Ala Arg
1 5

<210> 254
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 254
Glu Ser Arg Leu Gln Glu Cys Ala Arg
1 5

<210> 255
<211> 9
<212> PRT
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<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 255

Gln Ala Arg Leu Ala Glu Cys Ala Arg
1 5

<210> 256

<211> 9

<212> PRT

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 256

Glu Leu Lys Lys Gln Glu Cys Ala Arg
1 5

<210> 257

<211> 9

<212> PRT

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<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 257

Glu Ser Arg Leu Ser Glu Cys Ala Arg
1 5

<210> 258

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 258

Glu Ala Arg Leu Glu Glu Cys Gly Arg
1 5

<210> 259

<211> 9

<212> PRT

<213> Artificial Sequence

<220>
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<400> 259
Glu Ser Arg Leu Ala Glu Cys Gly Arg
1 5

<210> 260
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
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<400> 260
Glu Trp Arg Leu Glu Glu Cys Ala Arg
1 5

<210> 261
<211> 9
<212> PRT
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<220>
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<400> 261
Glu Ala Arg Leu Ser Glu Cys Gly Arg
1 5

<210> 262
<211> 9
<212> PRT
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<220>
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<400> 262
Ala Ala Arg Leu Ala Glu Cys Ala Arg
1 5

<210> 263
<211> 9
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<400> 263
Glu Trp Lys Leu Ala Glu Cys Ala Arg
1 5

<210> 264
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
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<400> 264
Glu Ser Lys Leu Glu Glu Cys Ala Arg
1 5

<210> 265
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
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<400> 265
Asp Val Lys Leu Ala Glu Cys Ala Arg
1 5

<210> 266
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
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<400> 266
Glu Leu Gln Leu Glu Glu Cys Ala Arg
1 5

<210> 267
<211> 9
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<223> Description of Artificial Sequence: Synthetic peptide

<400> 267

Glu Tyr Lys Leu Ala Ser Cys Ala Arg
1 5

<210> 268

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 268

Arg Leu Ser Ile Cys Glu Glu Lys Leu Arg Glu Cys Ala Arg Gly Cys
1 5 10 15

<210> 269

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 269

Pro Leu Thr Thr Cys Glu Ala Arg Leu Ala Glu Cys Ala Arg Gln Leu
1 5 10 15

<210> 270

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 270

Leu Ala Leu Cys Met Lys Leu Met Glu Cys Ala Arg Arg Tyr
1 5 10

<210> 271

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 271

Glu Leu Val Met Cys Glu Leu Arg Leu Arg Glu Cys Ala His Arg Ala
1 5 10 15

<210> 272

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 272

Pro Leu Ala Arg Cys Glu Ala Lys Leu His Glu Cys Ala Arg Gln Leu
1 5 10 15

<210> 273

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 273

Leu Leu Ser Val Cys Glu Leu Lys Leu Ala Glu Cys Ala Arg Ser Lys
1 5 10 15

<210> 274

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 274

Arg Leu Glu Trp Cys Glu Ala Arg Leu Glu Glu Cys Ala Arg Arg Cys
1 5 10 15

<210> 275

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 275

Arg Leu Arg Val Val Glu Ala Lys Leu Arg Glu Cys Ala Arg Gly Arg
1 5 10 15

<210> 276

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 276

Cys Val Ala His Leu Glu Leu Arg Leu Ala Glu Cys Ala Arg Gln Ile
1 5 10 15

<210> 277

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 277

His Leu Ala Arg Cys Glu Ser Arg Leu Ala Glu Cys Ala Arg Gln Leu
1 5 10 15

<210> 278

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 278

Arg Leu Ala Leu Leu Glu Ala Lys Leu Val Glu Cys Ala Arg Arg Leu
1 5 10 15

<210> 279

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 279

Asp Leu Phe Ser Leu Glu Ser Arg Leu Arg Glu Cys Ala Arg Arg Val
1 5 10 15

<210> 280

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 280

Ala Val Pro Val Leu Glu Ala Lys Leu Ala Glu Cys Ala Arg Arg Phe
1 5 10 15

<210> 281

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 281

Tyr Leu Gln Gln Leu Gln Trp Arg Leu Glu Glu Cys Ala Arg Gly Met
1 5 10 15

<210> 282

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 282

Tyr Leu Glu Leu Cys Gln Leu Arg Leu Glu Glu Cys Ala Arg Gln Phe
1 5 10 15

Asn

<210> 283

<211> 16

<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 283
Glu Leu His Ile Cys Glu Leu Arg Leu Glu Glu Cys Ala Arg Gly Arg
1 5 10 15

<210> 284
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 284
Arg Val Ala Arg Cys Glu Leu Arg Leu Ala Glu Cys Ala Arg Lys Ser
1 5 10 15

<210> 285
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 285
Tyr Leu Glu Val Leu Glu Ser Arg Leu Ala Glu Cys Ala Arg Trp Lys
1 5 10 15

<210> 286
<211> 11
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 286
Glu Ala Lys Leu Leu Glu Cys Ala Arg Ala Arg
1 5 10

<210> 287
<211> 18
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 287

Glu Leu Ser Leu Cys Glu Ala Arg Ala Gly Val Cys Ala Gly Ser Val
1 5 10 15

Thr Lys

<210> 288

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 288

Glu Leu Ser Leu Cys Glu Ala Lys Ala Gly Val Cys Ala Gly Ser Val
1 5 10 15

Thr Lys

<210> 289

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 289

Ala Leu Trp Gln Cys Val Ala Arg Leu Glu Glu Cys Ala Arg Ser Arg
1 5 10 15

<210> 290

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 290

Cys Leu Lys Ser Cys Glu Leu Lys Leu Asp Glu Cys Ala Arg Arg Met
1 5 10 15

<210> 291
<211> 16
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 291
Ala Leu Gln Thr Cys Glu Trp Arg Leu Gln Glu Cys Ala Arg Ser Arg
1 5 10 15

<210> 292
<211> 16
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 292
Tyr Ile Ser Gln Cys Glu Ala Lys Leu Ala Glu Cys Ala Arg Leu Tyr
1 5 10 15

<210> 293
<211> 16
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<223> Description of Artificial Sequence: Synthetic peptide

<400> 293
Glu Leu Ser Ser Cys Glu Ala Lys Leu Ser Glu Cys Ala Arg Arg Trp
1 5 10 15

<210> 294
<211> 16
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<400> 294
Glu Leu Ser Ser Cys Glu Ala Arg Leu Ser Glu Cys Ala Arg Arg Trp
1 5 10 15

<210> 295
<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 295

Gln Leu Leu Gln Cys Glu Leu Lys Leu Leu Glu Cys Ala Arg Gln Gly
1 5 10 15

<210> 296

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 296

Glu Leu Leu Arg Cys Glu Ala Arg Leu Ala Glu Cys Ala Arg Gly Cys
1 5 10 15

<210> 297

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 297

Gln Leu Arg Gln Cys Glu Leu Arg Leu Gln Glu Cys Gly Arg His Gly
1 5 10 15

Asn

<210> 298

<211> 16

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 298

Pro Leu Thr Ser Cys Glu Gln Lys Leu Ala Glu Cys Ala Arg Arg Phe
1 5 10 15

<210> 299

<211> 16

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<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 299

Leu Leu Gly Met Cys Glu Leu Arg Leu Gln Glu Cys Ala Arg Ala Lys
1 5 10 15

<210> 300

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 300

Glu Leu Ser Arg Cys Glu Leu Lys Leu Glu Glu Cys Ala Arg Gly Met
1 5 10 15

<210> 301

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 301

Asp Cys Arg Pro Cys Glu Ser Arg Leu Glu Glu Cys Ala Arg Arg Leu
1 5 10 15

<210> 302

<211> 16

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<213> Artificial Sequence

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<400> 302

Arg Leu Ser Val Cys Glu Ala Arg Leu Glu Glu Cys Ala Arg Gln Leu
1 5 10 15

<210> 303

<211> 16

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Pro Leu Lys Met Cys Glu Ala Thr Val Gln Glu Cys Ala Arg Leu Ile
1 5 10 15

<210> 304
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<220>
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<400> 304
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1 5 10 15

<210> 305
<211> 16
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<220>
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<400> 305
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1 5 10 15

<210> 306
<211> 17
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<400> 306
Pro Leu Phe Ser Cys Glu Leu Lys Leu Gln Glu Cys Ala Arg Arg Cys
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Asn

<210> 307

<211> 16

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<400> 307

Ser Leu Glu Arg Cys Tyr Ser Arg Leu Glu Glu Cys Gly Arg Arg Ile
1 5 10 15

<210> 308

<211> 17

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<400> 308

Pro Leu Thr Ser Cys Glu Leu Arg Leu Arg Glu Cys Ala Leu Arg Ser
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Asn

<210> 309

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<400> 309

Lys Leu Ala Ala Cys Glu Leu Lys Leu Ala Glu Cys Ala Arg Arg Trp
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<210> 310

<211> 16

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<400> 310

Lys Leu Ala Ala Cys Glu Leu Arg Leu Ala Glu Cys Ala Arg Arg Trp
1 5 10 15

<210> 311
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Ala Leu Thr Arg Cys Glu Leu Arg Leu Ala Glu Cys Ala Arg Lys Ile
1 5 10 15

<210> 312
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Leu Leu Gln Gln Cys Glu Leu Lys Leu Ala Glu Cys Ala Arg Ser Ile
1 5 10 15

<210> 313
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Gln Leu Trp Gln Cys Glu Ala Arg Leu Leu Glu Cys Ala Arg Arg Ser
1 5 10 15

<210> 314
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<400> 314
Arg Leu Arg Leu Cys Glu Ser Arg Leu Leu Glu Cys Ala Arg Ser Leu
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<210> 315

<211> 17

<212> PRT

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<400> 315

Gln Leu Glu Thr Cys Val Leu Lys Leu Glu Glu Cys Ala Arg Arg Cys
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Asn

<210> 316

<211> 18

<212> PRT

<213> Artificial Sequence

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Thr Lys

<210> 317

<211> 11

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Glu Leu Lys Leu Ala Glu Cys Ala Arg Arg Ser
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<213> Artificial Sequence

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1 5 10 15

<210> 319
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<210> 320
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<210> 321
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Asn

<210> 322
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<400> 322
Gln Met Glu Trp Cys Gln Ala Arg Leu Ala Glu Cys Ala Arg Cys Cys
1 5 10 15

Asn

<210> 323
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Pro Leu Phe Ser Cys Glu Leu Lys Lys Gln Glu Cys Ala Arg Arg Cys
1 5 10 15

Asn

<210> 324
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Asp Leu Leu Tyr Cys Glu Ser Arg Leu Ala Glu Cys Gly Arg Met
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<400> 327
Ala Leu Gln Met Cys Glu Trp Arg Leu Glu Glu Cys Ala Arg Arg Leu
1 5 10 15

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1 5 10 15

<210> 329
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<400> 329
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<400> 330

Leu Leu Ala Thr Cys Ala Ala Arg Leu Ala Glu Cys Ala Arg Gln Leu
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<210> 331

<211> 15

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<400> 331

Leu Gln Thr Cys Glu Trp Lys Leu Ala Glu Cys Ala Arg Ser Asn
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<210> 332

<211> 16

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<400> 332

Pro Leu Arg Ser Cys Glu Ser Lys Leu Glu Glu Cys Ala Arg Gln Leu
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<210> 333

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<400> 333

Cys Leu Arg Ala Leu Asp Val Lys Leu Ala Glu Cys Ala Arg His Leu
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<210> 334

<211> 16

<212> PRT

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<400> 334

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<210> 335

<211> 16

<212> PRT

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<210> 336

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<400> 336

Ser Leu Gln Arg Cys Glu Tyr Lys Leu Ala Ser Cys Ala Arg Ser Leu
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<400> 337

Arg Leu Ala Arg Cys Glu Leu Arg Leu Ala Glu Cys Ala Arg Lys Ser
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Asp Leu Trp Tyr Leu Glu Ser Lys Leu Glu Glu Cys Ala Arg Arg Cys
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Asn

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<400> 339

Asp Leu Trp Tyr Leu Glu Ser Lys Leu Glu Glu Cys Ala Arg Arg Ala
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Asn Gly

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<400> 340

Asp Leu Trp Tyr Leu Glu Ser Lys Leu Glu Glu Cys Ala Arg Arg Cys
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Asn Gly

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Lys Gln Arg Glu Leu Glu Leu Lys Leu Ala Glu Cys Ala Arg Arg Ser
1 5 10 15

<210> 342
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<400> 342
Gln Met Gln Glu Trp Cys Ala Arg Leu Ala Glu Cys Ala Arg Cys Cys
1 5 10 15

Asn

<210> 343
<211> 17
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<400> 343
Leu Leu Asp Ile Cys Glu Leu Lys Leu Gln Glu Cys Ala Arg Arg Ala
1 5 10 15

Asn

<210> 344
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1 5 10

<210> 345
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<400> 345
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<210> 346
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<400> 346
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1 5 10

<210> 347
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<400> 347
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1 5 10

<210> 348
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<400> 348
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1 5 10

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<400> 349
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1 5 10

<210> 350
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<400> 350
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1 5 10

<210> 351
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1 5 10

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1 5 10

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1 5 10

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<400> 354
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1 5 10

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1 5 10

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<400> 356
Ala Glu Arg Ile Ala Glu Glu Arg Arg Trp
1 5 10

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Ala Glu Arg Ser Ala Glu Glu Arg Arg Trp
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<400> 358
Ala Glu Arg Lys Ala Glu Glu Leu Arg Trp
1 5 10

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1 5 10

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1 5 10

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1 5 10

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1 5 10

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1 5 10

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<400> 364
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1 5 10

<210> 365
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<400> 365
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1 5 10

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<400> 366
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1 5 10

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1 5 10

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<400> 368
Gly Glu Arg Lys Ala Glu Glu Arg Arg Trp
1 5 10

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<400> 369
Ala Glu Arg Glu Ala Glu Glu Arg Arg Trp
1 5 10

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1 5 10

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1 5 10

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Ala Glu Gly Arg Ala Glu Glu Ala Arg Trp
1 5 10

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<400> 373
Ala Glu Arg Glu Ala Glu Lys Ala Arg Trp
1 5 10

<210> 374
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<400> 374
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1 5 10

<210> 375
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1 5 10

<210> 376
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<400> 376
Ala Glu Arg Glu Ala Glu Lys Leu Arg Trp
1 5 10

<210> 377
<211> 19
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<213> Artificial Sequence

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<400> 377

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1 5 10 15

Gly Arg Glu

<210> 378

<211> 20

<212> PRT

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1 5 10 15

Gly Arg Glu Lys

20

<210> 379

<211> 22

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<400> 379

Gly Gly Gly Met Leu Ala Glu Arg Lys Ala Glu Glu Arg Arg Trp Phe
1 5 10 15

Asn Thr His Gly Arg Glu

20

<210> 380

<211> 20

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<400> 380

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His Gly Arg Glu

20

<210> 381
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1 5 10 15

His Gly Arg Glu Lys
20

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1 5 10 15

Trp Arg Glu

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<211> 17
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1 5 10 15

Gly

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<400> 384

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Gly His Glu

<210> 385

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<400> 385

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Gly Arg

<210> 386

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Met Leu Ala Glu Arg Lys Ser Glu Asp Trp Arg Trp Leu Lys Thr His
1 5 10 15

Gly Arg Asp

<210> 387

<211> 19

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<400> 387

Met Leu Ala Glu Arg Lys Ala Glu Glu Lys Arg Arg Leu Lys Thr Gln
1 5 10 15

Gly Arg Glu

<210> 388
<211> 21
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<400> 388
Ile Leu Ala Glu Arg Gln Ala Glu Thr Arg Arg Trp Met Arg Asn Ala
1 5 10 15

Gly Ser Val Thr Lys
20

<210> 389
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<400> 389
Met Leu Ala Glu Arg Asn Ala Glu Arg Arg Trp Leu Lys Arg Gln
1 5 10 15

Cys Gly

<210> 390
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<400> 390
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1 5 10 15

Gly Gly Glu

<210> 391
<211> 19

<212> PRT
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<400> 391
Met Leu Ala Glu Arg Arg Ala Glu Glu Arg Arg Trp Leu Lys Thr Gln
1 5 10 15
Gly Gly Asp

<210> 392
<211> 19
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<400> 392
Met Leu Ala Glu Arg Gln Ala Glu Glu Arg Arg Trp Leu Lys Thr Gln
1 5 10 15
Gly Arg Asp

<210> 393
<211> 19
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<400> 393
Met Leu Ala Glu Arg Lys Ala Glu Glu Arg Arg Trp Phe Lys Thr His
1 5 10 15

Gly Arg Glu

<210> 394
<211> 19
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 394

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Leu | Ala | Glu | Arg | Lys | Ala | Glu | Glu | Arg | Arg | Trp | Phe | Asn | Asn | Gln |
| 1 | | | 5 | | | | | | 10 | | | | 15 | | |

Gly Arg Glu

<210> 395

<211> 19

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<400> 395

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Pro | Ala | Glu | Arg | Asp | Ala | Glu | Gln | Arg | Arg | Trp | Leu | Lys | Thr | His |
| 1 | | | 5 | | | | | | 10 | | | | 15 | | |

Gly Arg Glu

<210> 396

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<400> 396

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Leu | Ala | Glu | Arg | Ile | Ala | Glu | Glu | Arg | Arg | Trp | Leu | Lys | Thr | Gln |
| 1 | | | 5 | | | | | | 10 | | | | 15 | | |

Gly Arg

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<400> 397

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Leu | Ala | Glu | Arg | Lys | Ala | Glu | Glu | Arg | Arg | Trp | Leu | Gln | Thr | His |
| 1 | | | 5 | | | | | | 10 | | | | 15 | | |

Gly Arg Glu

<210> 398
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<400> 398
Ile Leu Ala Glu Arg Ser Ala Glu Glu Arg Arg Trp Leu Lys Thr Gln
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Gly Arg Glu

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<400> 399
Leu Leu Ala Glu Arg Lys Ala Glu Glu Leu Arg Trp Leu Lys Thr His
1 5 10 15
Gly Arg Glu

<210> 400
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 400
Met Leu Ala Glu Arg Lys Ala Glu Glu Arg Arg Trp Leu Gln Thr His
1 5 10 15

Gly Arg Glu

<210> 401
<211> 12
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 401

Met Leu Ala Glu Arg Asn Ala Glu Glu Arg Arg Trp
1 5 10

<210> 402

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 402

Met Phe Ala Glu Arg Lys Ala Glu Glu Ser Arg Trp Leu Gln Ser Gln
1 5 10 15

Gly Arg Glu

<210> 403

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 403

Met Leu Glu Glu Arg Lys Ala Glu Glu Arg Arg Trp Leu Lys Thr His
1 5 10 15

Gly Arg

<210> 404

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 404

Met Leu Ala Glu Arg Lys Ala Glu Glu Arg Arg Trp Leu Lys Met Gln
1 5 10 15

Gly Arg Glu

<210> 405
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 405
Met Leu Ala Glu Arg Asn Ala Glu Glu Arg Arg Trp Phe Tyr Thr His
1 5 10 15
Gly Arg Glu

<210> 406
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 406
Met Leu Ala Asp Gly Lys Ala Glu Glu Arg Arg Trp Leu Lys Thr His
1 5 10 15
Gly Leu Asp

<210> 407
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 407
Met Ile Ala Asp Gly Lys Ala Glu Glu Arg Arg Trp Leu Lys Thr His
1 5 10 15

Gly Arg Asp

<210> 408
<211> 19
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 408

Met Leu Ala Asp Gly Lys Ala Glu Glu Leu Arg Trp Leu Lys Thr Gln
1 5 10 15

Gly Ser Asp

<210> 409

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 409

Met Leu Ala Glu Arg Asn Ala Glu Glu Arg Arg Trp Leu Lys Thr His
1 5 10 15

Gly Arg Asp

<210> 410

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 410

Met Leu Ala Asp Gly Lys Ala Glu Glu Leu Arg Trp Leu Lys Thr Gln
1 5 10 15

Gly Arg Glu

<210> 411

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 411

Ile Leu Ala Asp Gly Lys Ala Glu Glu Arg Arg Trp Leu Lys Thr His
1 5 10 15

Gly Arg Asp

<210> 412
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 412
Met Leu Ala Asp Gly Met Pro Glu Glu Arg Arg Trp Leu Gln Thr His
1 5 10 15

Gly Arg Asp

<210> 413
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 413
Met Leu Ala Asp Gly Glu Ala Glu Lys Arg Arg Trp Leu Asn Thr His
1 5 10 15

Gly Arg Asp

<210> 414
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 414
Met Leu Ala Asp Gly Asn Ala Glu Glu Arg Arg Trp Leu Met Thr His
1 5 10 15

Gly Arg Asp

<210> 415
<211> 19

<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 415
Met Leu Ala Asp Gly Glu Ala Glu Lys Ala Arg Trp Leu Lys Thr Gln
1 5 10 15

Gly Arg Glu

<210> 416
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 416
Met Leu Ala Glu Gly Glu Ala Glu Lys Ala Arg Trp Leu Lys Thr Gln
1 5 10 15

Gly Arg Glu

<210> 417
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 417
Met Leu Ala Asp Gly Lys Ala Glu Glu Arg Arg Trp Leu Lys Thr Gln
1 5 10 15

Gly Arg Glu

<210> 418
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 418
Met Leu Ala Glu Arg Lys Ala Glu Glu Arg Arg Trp Leu Ser Ala His
1 5 10 15

Val Arg Glu

<210> 419
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 419
Leu Leu Gly Glu Arg Lys Ala Glu Glu Arg Arg Trp Tyr Lys Thr His
1 5 10 15

Ala Arg Glu

<210> 420
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 420
Met Leu Ala Glu Arg Lys Ala Glu Glu Arg Arg Trp Leu Met Thr His
1 5 10 15

Gly His Asp

<210> 421
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 421
Met Leu Ala Glu Arg Lys Ala Glu Glu Arg Arg Trp Leu Lys Ser Gln
1 5 10 15

Cys Leu Glu

<210> 422
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 422
Leu Leu Ala Glu Arg Glu Ala Glu Glu Arg Arg Trp Phe Lys Thr His
1 5 10 15

Gly Arg Glu

<210> 423
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 423
Met Leu Ala Asp Gly Glu Ala Glu Ala Arg Arg Trp Phe Asn Met His
1 5 10 15

Gly Arg Glu

<210> 424
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 424
Met Leu Ala Asp Gly Arg Ala Glu Glu Ala Arg Trp Leu Lys Thr Gln
1 5 10 15

Gly Ser Glu

<210> 425
<211> 19
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 425

Met Leu Ala Glu Gly Arg Ala Glu Glu Ala Arg Trp Leu Lys Thr Gln
1 5 10 15

Gly Ser Glu

<210> 426

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 426

Met Leu Ala Glu Arg Glu Ala Glu Lys Ala Arg Trp Leu Lys Thr Gln
1 5 10 15

Gly Arg Glu

<210> 427

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 427

Met Met Ala Glu Arg Lys Ala Glu Glu Gln Arg Trp Phe Asp Ile His
1 5 10 15

Gly Arg Asp

<210> 428

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 428

Leu Thr Ala Glu Arg Asp Ala Glu Lys Arg Arg Trp Leu Leu Thr His
1 5 10 15

Gly Gly Glu

<210> 429
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 429
Met Leu Ala Glu Arg Gln Ala Glu Glu Arg Arg Trp Leu Lys Ser Gln
1 5 10 15

Arg Gly Glu

<210> 430
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 430
Leu Leu Ala Glu Arg Lys Ala Glu Glu Arg Arg Trp Phe Ala Thr His
1 5 10 15

Gly Arg Asp

<210> 431
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 431
Met Leu Ala Glu Arg Glu Ala Glu Lys Leu Arg Trp Leu Lys Ser Gln
1 5 10 15

Glu Arg Ala

<210> 432
<211> 19

<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 432
Met Leu Ala Glu Arg Lys Ala Glu Glu Arg Arg Trp Leu Lys Thr His
1 5 10 15
Gly Gly Glu

<210> 433
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 433
Cys Thr Trp Thr Asp Leu Glu Ser Val Tyr
1 5 10

<210> 434
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 434
His Thr Thr Asn Glu Gln Phe Phe Met Cys
1 5 10

<210> 435
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 435
Asp Thr Trp Leu Glu Leu Glu Ser Arg Tyr
1 5 10

<210> 436
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 436
His Asn Ser Ser Pro Met Val Gly Val Thr
1 5 10

<210> 437
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 437
Asp Trp Gln Lys Thr Ile Pro Ala Tyr Trp
1 5 10

<210> 438
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 438
Arg Trp Gly Arg Glu Gly Leu Val Ala Ala Leu Leu
1 5 10

<210> 439
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 439
Trp Ser Gly Thr Arg Val Trp Arg Cys Val Val Thr
1 5 10

<210> 440
<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 440

Met Ser Leu Leu Ser Tyr Leu Arg Ser

1

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<210> 441

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 441

Leu Asp Leu Leu Ala Ile

1

5

<210> 442

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 442

Arg Ile Tyr Gly Val Lys

1

5

<210> 443

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 443

Met Ile Trp His Met Phe Met Ser Leu Leu Phe

1

5

10

<210> 444

<211> 11

<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 444
Phe Phe Trp Ala Ser Trp Met His Leu Leu Trp
1 5 10

<210> 445
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 445
Phe Asp Asp Cys Trp Arg Glu Arg Glu Gln Phe Leu Phe Gln Ala Leu
1 5 10 15

<210> 446
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 446
Cys Gly Arg Ala Ser Glu Cys Phe Arg Leu Leu Glu Met
1 5 10

<210> 447
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 447
Arg Glu Cys Phe Gln Met Leu Glu Arg
1 5

<210> 448
<211> 14
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 448

Cys Ser Ile Arg Trp Asp Phe Val Pro Gly Tyr Gly Leu Cys
1 5 10

<210> 449

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 449

Trp Met Gln Cys Trp Asp Ser Leu Ser Leu Cys Tyr Asp Met
1 5 10

<210> 450

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 450

Ala Leu Leu Met Cys Glu Ser Lys Leu Ala Glu Cys Ala Arg Ala Arg
1 5 10 15

<210> 451

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 451

Leu Ala His Cys Lys Lys Arg Lys Glu Glu Cys Ala Ala Gly
1 5 10

<210> 452

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 452

Ser Ile Asp Gly Val Tyr Leu Arg Thr Ser Arg Thr
1 5 10

<210> 453

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 453

Ser Ile Asp Gly Val Tyr Leu Arg Thr Arg Ser Arg Thr Arg Tyr
1 5 10 15

<210> 454

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 454

Val Arg Trp Leu Arg Gly Ser Thr Leu Arg Gly Leu Arg Asp Arg
1 5 10 15

<210> 455

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 455

Asp Arg Gly Gly Gly Thr Val Gly Val Tyr Trp Trp Glu Ser Tyr
1 5 10 15

<210> 456

<211> 11

<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 456
Val Trp Gly Thr Val Gly Thr Trp Leu Glu Tyr
1 5 10

<210> 457
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 457
Leu Met Trp Val Ser Ala Tyr
1 5

<210> 458
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 458
Arg Ala Ser Asp Glu Tyr Gly Ala Leu Val Arg Phe Cys Thr Asn Leu
1 5 10 15

<210> 459
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 459
Asn Tyr Trp Cys Asp Ser Asn Trp Val Cys Glu Ile Ala
1 5 10

<210> 460
<211> 14
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 460

Leu Ala His Cys Leu Leu Arg Leu Glu Glu Cys Ala Ala Gly
1 5 10

<210> 461

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 461

Leu Ala Leu Cys Leu Ala Arg Leu Arg Glu Cys Ala Gly Gly
1 5 10

<210> 462

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 462

Cys Glu Ser Arg Leu Val Glu Cys Ser Arg Met
1 5 10

<210> 463

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 463

Leu Leu Asp Ile Ala Glu Leu Lys Leu Gln Glu Cys Ala Arg Arg Cys
1 5 10 15

Asn

<210> 464

<211> 18

<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 464
Lys Leu Leu Asp Ile Ala Glu Leu Lys Leu Gln Glu Cys Ala Arg Arg
1 5 10 15
Cys Asn

<210> 465
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 465
Cys Ser Thr Gly Gly Gly Leu Thr Ala Glu Arg Asp Ala Glu Lys Arg
1 5 10 15
Arg Trp Leu Leu Thr His Gly Gly Glu
20 25

<210> 466
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 466
Leu Thr Ala Glu Arg Asp Ala Glu Lys Arg Arg Trp Leu Leu Thr His
1 5 10 15
Gly Gly Glu Gly Gly
20

<210> 467
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 467
Leu Thr Ala Glu Arg Asp Ala Glu Lys Arg Arg Trp Leu Leu Thr His
1 5 10 15

Gly Gly Glu Gly Gly Lys
20

<210> 468
<211> 24
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 468
Leu Thr Ala Glu Arg Asp Ala Glu Lys Arg Arg Trp Leu Leu Thr His
1 5 10 15

Gly Gly Glu Gly Gly Gly Gly
20

<210> 469
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 469
Leu Thr Ala Glu Arg Asp Ala Glu Lys Arg Arg Trp Leu Leu Thr His
1 5 10 15

Gly Gly Glu Gly Gly Gly Gly Lys
20 25

<210> 470
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 470
Glu Ser Gly Trp Val Trp
1 5

<210> 471
<211> 6

<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 471
Asn Ser Gly Trp Val Trp
1 5

<210> 472
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 472
Ser Gly Trp Val Trp
1 5

<210> 473
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 473
Pro Leu Gly Lys Cys Glu Ala Thr Cys Arg Glu Met Ala Arg Tyr Phe
1 5 10 15

Asn

<210> 474
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 474
Ser Leu Gln Arg Cys Glu Tyr Lys Leu Ala Ser Val Arg Gly Leu Cys
1 5 10 15

Asn

<210> 475
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 475
Asp Leu Trp Tyr Leu Glu Ser Lys Leu Glu Ala Ala Arg Arg Cys
1 5 10 15

Asn Gly

<210> 476
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 476
Pro Tyr Met Gly Thr Arg Ser Arg Ala Lys Leu Leu Arg Gln Gln
1 5 10 15

<210> 477
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 477
Arg Asn Ala Gly Glu Arg Arg Trp Phe Lys Thr Gln Gly Trp Tyr
1 5 10 15

<210> 478
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 478
Met Leu Ala Glu Arg Asn Ala Asp Asp Arg Arg Trp Phe Asn Thr His
1 5 10 15

Gly Arg Asp

<210> 479
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 479
Met Met Ala Asp Gly Arg Leu Arg Asn Ser Val Gly Leu Ile Leu Trp
1 5 10 15

Cys Asp

<210> 480
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 480
Met Leu Ala Asp Gly Arg Leu Arg Asn Val Val Gly
1 5 10

<210> 481
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 481
Leu Leu Ala Asp Val Arg Arg Asn Gly Val Gly Leu Leu Arg Met
1 5 10 15

Gly Arg Asp

<210> 482
<211> 12

<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 482
Met Leu Ala Asp Gly Arg Leu Arg Asn Phe Gly Gly
1 5 10

<210> 483
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 483
Thr Tyr Met Thr Tyr Val Tyr Trp Leu Cys
1 5 10

<210> 484
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 484
Arg Phe Gly Glu Arg Trp Gly Leu
1 5

<210> 485
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 485
His Trp Leu Trp Trp Gly Trp Asn Phe
1 5

<210> 486
<211> 10
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 486

Arg Glu Cys Phe Gln Met Leu Glu Arg Cys
1 5 10

<210> 487

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 487

Ile Leu Ala His Arg Asn Ala Lys Glu Arg Arg Trp Phe Gln Lys His
1 5 10 15

Gly Arg

<210> 488

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 488

Cys Ser Thr Gly Gly Leu Thr Ala Glu Arg Asp Ala Glu Lys Arg
1 5 10 15Arg Trp Leu Leu Thr His Gly Gly Glu Lys
20 25

<210> 489

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 489

Lys Gly Gly Gly Met Leu Ala Glu Arg Lys Ala Glu Glu Arg Arg Trp
1 5 10 15

Phe Asn Thr His Gly Arg Glu
20

<210> 490
<211> 24
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 490
Lys Ser Thr Gly Gly Leu Thr Ala Glu Arg Asp Ala Glu Lys Arg Arg
1 5 10 15

Trp Leu Leu Thr His Gly Gly Glu
20

<210> 491
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 491
Glu Gln Ser Asn Ser Gly Trp Val Trp Val Gly Gly Gly Cys Lys
1 5 10 15
Lys Lys Cys